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Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	09/672,523
Filing Date	September 27, 2000
First Named Inventor	Kuriacose Joseph, et al.
Group Art Unit	3626
Examiner Name	Kalinowski, A.
Attorney Docket Number	5214P001R

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
OK		4,937,863		Robert, et al.	06-26-1990	
OK		5,204,897		Wyman	04-20-1993	
OK		5,260,999		Wyman	11-09-1993	
OK		5,627,940		Rohra, et al.	05-06-1997	
OK		5,640,501		Turpin	06-17-1997	
OK		5,640,577		Scharmer	06-17-1997	
OK		5,664,111		Nahan, et al.	09-02-1997	
OK		5,715,314		Payne, et al.	02-03-1998	
OK		5,715,399		Bezos	02-03-1998	
OK		5,727,163		Bezos	03-10-1998	
OK		5,745,681		Levine, et al.	04-28-1998	
OK		5,758,126		Daniels, et al.	05-26-1998	
OK		5,960,411		Hartman, et al.	09-28-1999	
OK		5,819,034		Joseph, et al.	10-06-1998	
OK		4,247,106		Jeffers, et al.	01-27-1981	
OK		5,003,591		Kauffman, et al.	03-26-1991	
OK		5,440,632		Bacon	08-08-1995	
OK		5,581,270		Smith, et al.	12-03-1996	

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GROUP 3600**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ⁴	Number	Kind Code ⁵ (if known)				
OK		EP	0845747	A2	Hitachi, Ltd.	06-03-1998		
OK		EP	0883076	A2	International Business Machines	12-09-1998		
OK		WO	95/30961		Tackbary, Mary	11-16-1995		
OK		WO	98/21679		Microsoft Corporation	05-22-1998		
OK		WO	96/38799		Amazon.com	12-05-1996		
OK		EP	0855659	A1	Gabber, Eran	07-29-1998		
OK		EP	0855687	A2	AT&T Corp.	07-29-1998		

Examiner Signature

Date Considered

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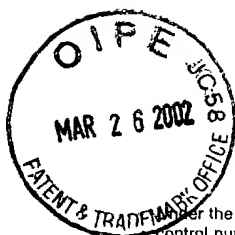
¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S 3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/672,523	
			Filing Date	09/27/2000	
			First Named Inventor	Kuriacose Joseph	
			Art Unit	2761	
			Examiner Name	Kalinowski, A.	
Sheet	1	of	5	Attorney Docket Number	5214P001R

U.S. PATENT DOCUMENTS						
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		Number - Kind Code ² (if known)				
OK	1	US-	3,803,491	04.09.1974	Osborn	
OK	2	US-	3,891,792	06.24.1975	Kimura	
OK	3	US-	4,264,925	04.28.1981	Freeman et al.	
OK	4	US-	4,323,922	04.06.1982	den Toonder et al.	
OK	5	US-	4,528,589	07.09.1985	Block et al.	
OK	6	US-	4,724,521	02.09.1988	Carron et al.	
OK	7	US-	4,851,994	07.25.1989	Toda et al.	
OK	8	US-	4,935,870	06.19.1990	Burk, Jr. et al.	
OK	9	US-	4,937,784	06.26.1990	Masai et al.	
OK	10	US-	4,965,825	10.23.1990	Harvey et al.	
OK	11	US-	4,991,011	02.05.1991	Johnson et al.	
OK	12	US-	5,003,591	03.26.1991	Kaufman et al.	
OK	13	US-	5,036,314	07.30.1991	Barillari et al.	
OK	14	US-	5,129,080	07.07.1992	Smith	
OK	15	US-	5,132,992	07.21.1992	Yurt et al.	
OK	16	US-	5,191,410	03.02.1993	McCalley et al.	
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OK	20	US-	5,233,654	08.03.1993	Harvey et al.	

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FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
W	21	EP	0 145 063	A2	06.19.1985	International Standard Electric Corporation		
W	22	EP	0 145 063	B1	06.19.1985	International Standard Electric Corporation		
W	23	EP	0 570 683	A2	11.24.1993	International Business Machines Corporation		
W	24	EP	0 570 683	A3	11.24.1993	International Business Machines Corporation		
W	25	EP	0 583 186	B1	02.16.1994	Queniat, Jean-François		
W	26	EP	0 399 300	A2	11.28.1990	Hitachi, LTD.		
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Examiner Signature	<i>Wendell C. Johnson</i>	Date Considered	11/14/02
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Substitute for form 1449B/PTO		Complete if Known			
		Application Number	09/672,523		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	09/27/2000		
		First Named Inventor	Kuriacose Joseph		
		Group Art Unit	2761		
		Examiner Name	Kalinowski, A		
Sheet	2	of	5	Attorney Docket Number	5214P001R

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
AC	31	Green N, Hedger J, "ORACLE on Independent Television" Sept. 1976.
AC	32	Hedger, J, "Broadcast Telesoftware: Experience with ORACLE" Online conferences Ltd., 1980.
AC	33	Ammar M H, Wong JW, "The Design of Teletext Broadcast Cycles" Elsevier Science Publishers B.V., 1985 (Received May 13, 1984). [Wong's group, Dept of Computer Science, University of Waterloo, Ontario, Canada]
AC	34	Gifford D K, Lucassen J M, Berlin S T, "The Application of Digital Broadcast Communication to Large Scale Information Systems" IEEE Journal on Selected Areas in Communications, Vol. SAC-3, No. 3, May 1985 (received Sept. 19, 1984). [MIT lab, Gifford's group]
AC	35	Wong J W, "Broadcast Delivery" Proceedings of IEEE, Vol. 76, No. 12, Dec 1988 (Received April 15 1988).
AC	36	Herman G, Gopal G, Lee K C, Weinrib A, "The Datacycle Architecture for Very High Throughput Database Systems" Proceedings of Association for Computing Machinery Special Interest Group on Management of Data, 1987 Annual Conference, San Francisco, May 27-29, 1987 [Bell Lab, Herman & Gopal's group, Bell Communications Research, Inc., Morristown, NJ]
AC	37	Gifford D K, "Polychannel Systems for Mass Digital Communication" Communications of ACM, Vol. 33, Number 2, Feb. 1990. [MIT lab, Gifford's group]
AC	38	Bowen T F, Gopal G, Herman G, Hickey T, Lee K C, Mansfield W H, Raitz J, Weinrib A, "The Datacycle Architecture" Communications of the ACM, Vol. 35, No. 12, Dec. 1992.
AC	39	Antonelli C J, Honeyman P, "Integrating Mass Storage and File Systems", Proceedings, Twelfth IEEE Symposium on Mass Storage Systems, April 26-29, 1993, Monterey, CA.
AC	40	Zdonik S, "Are 'Disks in the Air' Just Pie in the Sky?" IEEE, Workshop on Mobile Computing Systems and Applications, Santa Cruz, CA, Dec. 1994. [Brown's lab, Zdonik's Group, Dept. of Computer Science, Brown Univ., affiliated with Dept. of Computer Science, University of Maryland]
AC	41	Acharya S, Alonso R, Franklin M, Zdonik S, "Broadcast Disk: Data Management for Asymmetric Communication Environments" Proceedings of the ACM SIGMOD International conference on Management of Data, San Jose, CA May 1995 (first published in Brown University Technical Report CS-94-43, October 1994).

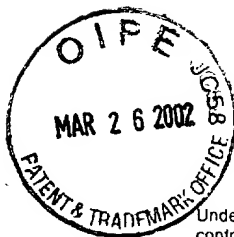
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Examiner Signature	<i>[Signature]</i>	Date Considered	11/14/02
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/672,523		
		Filing Date	09/27/2000		
		First Named Inventor	Kuriacose Joseph		
		Art Unit	2761		
		Examiner Name	Kalinowski, A.		
Sheet	3	of	5	Attorney Docket Number	5214P001R

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
Al	1	US- 5,343,239	08.30.1994	Lappington et al.	
Al	2	US- 5,440,744	08.08.1995	Jacobson et al.	
Al	3	US- 5,539,449	07.23.1996	Blahut et al.	
Al	4	US- 5,548,532	08.20.1996	Menand et al.	
Al	5	US- 5,600,364	02.04.1997	Hendricks et al.	
Al	6	US- 5,666,293	09.09.1997	Metz et al.	
Al	7	US- 5,729,549	03.17.1998	Kostreski et al.	
Al	8	US- 5,734,589	03.31.1998	Kostreski et al.	
Al	9	US- 5,768,539	06.16.1998	Metz et al.	
Al	10	US- 5,805,825	09.08.1998	Danneels et al.	
Al	11	US- 5,822,324	10.13.1998	Kostreski et al.	
Al	12	US- 5,826,166	10.20.1998	Brooks et al.	
Al	13	US- 5,951,639	09.14.1999	MacInnis	
Al	14	US- 5,973,684	10.26.1999	Brooks et al.	
Al	15	US- 5,978,855	11.02.1999	Metz et al.	
Al	16	US- 6,130,898	10.10.2000	Kostreski et al.	
Al	17	US- 6,185,585 B1	02.06.2001	Sequeira	
Al	18	US- 6,195,364 B1	02.27.2001	Brodigan	
Al	19	US- 6,222,530 B1	04.24.2001	Sequeira	
Al	20	US- 5,936,659	08-10-1999	Viswanathan et al.	

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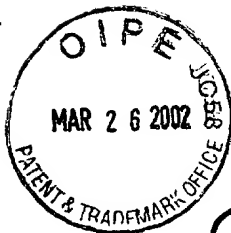
FOREIGN PATENT DOCUMENTS						
Examiner Initials ²	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
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Examiner Signature	<i>Alexander Calabrese</i>	Date Considered	11/14/02
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	09/27/2000		
		First Named Inventor	Kuriacose Joseph		
		Group Art Unit	2761		
		Examiner Name	Kalinowski, A		
Sheet	4	of	5	Attorney Docket Number	5214P001R

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
de	31	Acharya S, Alonso R, Franklin M, Zdonik S, "Dissemination-based Data Delivery Using Broadcast Disks" IEEE Personal Communications, Vol. 2(6), 50-60, 1995.	
de	32	Imielinski T, Viswanathan S, Badrinath B R, "Power Efficient Filtering of Data on Air" Advances in Database Technology - EDBT '94, Proceedings, 4th International conference on Extending Database Technology, Cambridge, United Kingdom, March 28-31, 1994, [Rutger's group, Imielinski's lab, Dept. of Computer Science, Rutgers University]	
de	33	Imielinski T, Viswanathan S, Badrinath B R, "Energy Efficient Indexing on Air" Proceedings of the 1994 ACM SIGMOD, International Conference on Management of Data, Minneapolis, Minnesota, May 24-27, 1994.	
de	34	Imielinski T, Badrinath B R, "Mobile Wireless Computing" Communications of the ACM, Vol. 37, No. 10, October 1994.	
de	35	Dr. Hisham El-Shishiny, et al., "A Regional Broadcast-Centric Education System", IEEE Symposium on Computers and Communications, Alexandria, Egypt, July 1-3, 1997.	
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Sheet	5	of	5	Filing Date	09/27/2000
				First Named Inventor	Kuriacose Joseph
				Art Unit	2761
				Examiner Name	Kalinowski, A.
				Attorney Docket Number	5214P001R

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		Number - Kind Code ² (if known)			
de de de	1	US- 6,240,448 B1	05-29-2001	Imielinski et al.	
	2	US- 5,706,435	01-06-1998	Barbará et al.	
	3	US- 5,168,356	12-01-1992	Acampora et al.	
	4	US- 5,581,704	12-03-1996	Barbará et al.	
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Examiner Signature	<i>de la Cruz</i>	Date Considered	<i>11/14/01</i>
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